ABSTRACT

The invention is directed generally to the structure of prenyltransferases, particularly undecaprenyl pyrophosphate synthase, an enzyme important in bacterial cell wall synthesis. The invention relates to the crystal structure of undecaprenyl pyrophosphate synthase from Streptococcus pneumoniae and its interaction with cofactors and ligands. The invention also relates to the structure of ligand and cofactor binding sites of undecaprenyl pyrophosphate synthase.

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